

DERWENT-ACC-NO: 1998-167215

DERWENT-WEEK: 199815

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TITLE: New hybrid polypeptide 1106 - used for  
determination of antibodies to HIV-1, useful in diagnosis of  
AIDS

INVENTOR: ALATORTSEVA, G I; GOLTSOV, V A ; SUKHANOVA, L L

PATENT-ASSIGNEE: BIOSERVIS BIO-TECHN CO[BIOSR]

PRIORITY-DATA: 1992SU-5029949 (February 28, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
RU <u>2085586</u> C1	July 27, 1997	N/A
005 C12N 015/48		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2085586C1	N/A	1992SU-5029949
February 28, 1992		

INT-CL (IPC): C12N015/48

ABSTRACTED-PUB-NO: RU 2085586C

BASIC-ABSTRACT:

Hybrid polypeptide 1106 capable of binding to antibodies of the gene  
pol HIV-1  
and beta -galactosidase of Escherichia coli, is new.

USE - The method, materials and producer strain can be used for, e.g.  
diagnosis  
of HIV.

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: B04 D16 J04

CPI-CODES: B04-E02F; B04-E08; B04-N03; B12-K04; D05-H09; D05-H11;

Best Local Similarity 100.0%; Pred. No. 3.6e-23; Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 2  
AAW4832  
ID AAW4832 standard; protein; 282 AA.

XX  
AC AAW4832;  
XX  
AC 17-OCT-2003 (revised)  
DT 04-AUG-1998 (first entry)

XX  
DB Hybrid HIV-1 pol/E. coli beta-galactosidase protein.  
KW antibody; diagnosis;  
KW Human immunodeficiency virus 1.  
OS *Escherichia coli*.  
OS Chimeric.  
XX  
FH Key Location/Qualifiers  
Misc-difference 5 /note= "encoded by NAC"  
PT Misc-difference 36 /note= "encoded by GAAT"  
PT Misc-difference 157 /note= "encoded by GGA"  
PT Misc-difference 178 /note= "encoded by CAC"  
PN RU085566-C1.  
XX  
PD 27-JUL-1997.  
XX  
PP 28-FEB-1992; 92SU-05029949.  
XX  
PR 28-FEB-1992; 92SU-05029949.  
PA (BIOS) BIOSERVIS BIO-TECHN CO.  
XX  
PI Sukhanova LL, Alatortseva GI, Goltsov VA;  
XX  
DR WPI; 1998-167215/15.  
XX  
N-PSDB; AAV19300.  
XX  
PT New hybrid polypeptide 1106 - used for determination of antibodies to HIV  
XX  
PT -1, useful in diagnosis of AIDS.

XX  
PS Example 3, Col 8; spp; Russian.  
XX  
CC This is the amino acid sequence of a hybrid protein designated H1106 and  
generated by fusing part of the sequence encoding the human  
immunodeficiency virus type 1 (HIV-1) pol protein and part of the E. coli  
beta-galactosidase gene. The chimeric protein can be used for generating  
antibodies for the diagnosis of HIV-1. (Updated on 17-OCT-2003 to  
standardise OS field)  
XX  
SQ Sequence 282 AA;

Query Match 100.0%; Score 217; DB 2; Length 288;  
Best Local Similarity 100.0%; Pred. No. 3.6e-23;  
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 4  
AAO21424  
ID AAO21424 standard; protein; 288 AA.  
XX  
AC AAO21424;  
XX  
DT 29-AUG-2003 (revised)  
DT 06-AUG-2002 (first entry)

XX  
DB Human immunodeficiency virus integrase protein #15.  
KW Anti-HIV; human immunodeficiency virus; HIV; integrase; drug-resistant;  
KW inhibitor.  
OS Human immunodeficiency virus 1.

RESULT 3  
AAO21412  
ID AAO21412 standard; protein; 288 AA.  
XX  
AC AAO21412;  
XX  
XX  
DE Human immunodeficiency virus integrase protein #3.  
KW Anti-HIV; human immunodeficiency virus; HIV; integrase; drug-resistant;  
KW inhibitor.  
XX  
OS Human immunodeficiency virus 1.  
XX  
PN WO200238771-A1.  
XX  
PD 16-MAY-2002.  
XX  
PP 02-NOV-2001; 2001WO-JP009615.  
XX  
PR 09-NOV-2000; 2000JP-00341393.  
XX  
PA (SHIO ) SHIONOGI & CO LTD.  
XX  
PI Sato A, Yoshinaga T;  
DR WPI; 2002-426951/45.  
XX  
Claim 4; Page 57-59; 1079p; Japanese.  
CC The invention relates to human immunodeficiency virus (HIV) integrase  
CC drug-resistant mutants having 64-Asp, 116-Asp and 152-Glu and one or more  
CC mutations at positions 63, 66, 70, 72, 74, 92, 118, 121, 138, 140, 145,  
CC 146, 148, 151, 153, 155, 249 and/or 250. The invention is useful for  
CC the identification of inhibitors effective against the integrase of drug-  
resistant strains of HIV, and development of probes and primers for the  
CC detection of drug-resistant HIV strains. This sequence is a human  
CC immunodeficiency virus (HIV) integrase related protein of the invention.  
CC (Updated on 29-AUG-2003 to standardise OS field)  
XX  
SQ Sequence 288 AA;

Query Match 100.0%; Score 217; DB 5; Length 288;  
Best Local Similarity 100.0%; Pred. No. 3.7e-23;  
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 4  
AAO21424  
ID AAO21424 standard; protein; 288 AA.  
XX  
AC AAO21424;  
XX  
DB Human immunodeficiency virus integrase protein #15.  
KW Anti-HIV; human immunodeficiency virus; HIV; integrase; drug-resistant;  
KW inhibitor.  
OS Human immunodeficiency virus 1.

1 KIQNFRVYRDSRDPLWKGPALKLWKGEGAVVIQDNNSDIK 40  
214 KIQNFRVYRDSRDPLWKGPALKLWKGEGAVVIQDNNSDIK 253